Scholarly, Multifaceted, and Informative magazine
Association of Artificial Intelligence and Computer Engineering of Islamic Azad university of Semnan
Year I - Issue I - Spring of 2023

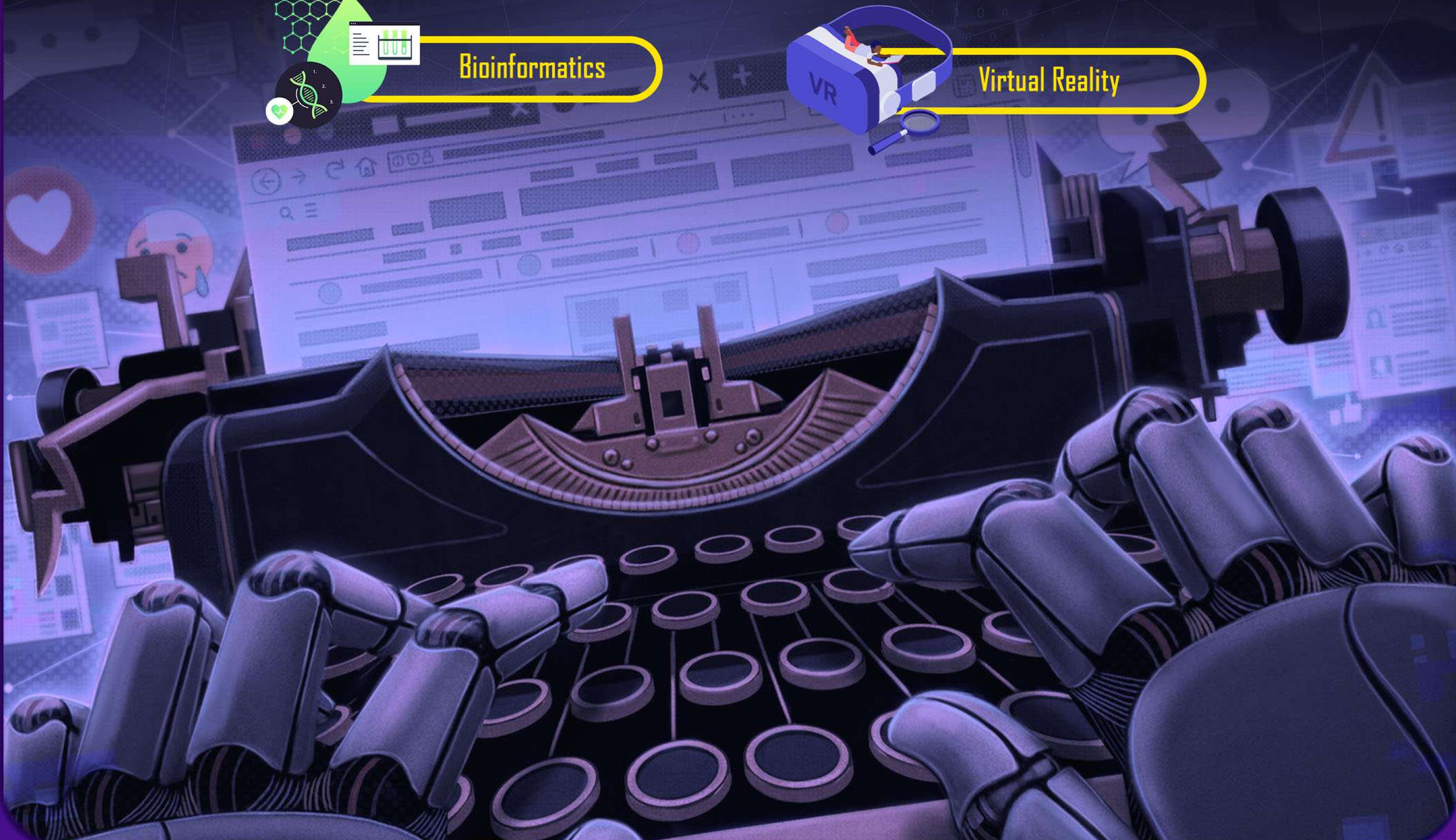
DEBUGGER

GENESIS

Issue I

The first academic magazine created entirely by artificial intelligence in Iran

- Artificial Intelligence in psychology
- Telegram Vs WhatsApp
- Bioinformatics
- Virtual Reality



Association of Artificial Intelligence and Computer Engineering of Islamic Azad university of Semnan



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In the name of god

DEBUGGER

«Genesis» - A Journey of Innovation for Global Outreach

Embarking on a remarkable voyage, we, a passionate group of students from the Islamic Azad University of Semnan, are thrilled to drop the ink on our newfound path. Our aspirations extend far beyond the borders of our nation, as we seek to captivate the minds not only of Iranian students who have steadfastly supported us but also students from every corner of the globe.

Our mission is twofold. Firstly, we aim to introduce our fellow Iranian students to the marvels of technology, artificial intelligence, and computer engineering that lie beyond our great nation, unveiling the wonders of the wider world in these fields. Furthermore, we aspire to offer a glimpse of the vast and breathtaking advancements taking place in our country to students from other lands, fostering an understanding and appreciation for its cutting-edge innovations in these upcoming technologies.

As with any pioneering endeavor, there will inevitably be obstacles and challenges along the way. However, we embrace the courageous spirit of taking the first step and acknowledge that both small and big mistakes may occur. We humbly invite you to look beyond these missteps and lend us your invaluable perspective and ideas.

Join us on this exhilarating journey as we forge a path towards innovation, global collaboration, and the advancement of technology and computer science. Together, let us transcend boundaries and shape a brighter future for all.

Pahlavanian

DEBUGGER

Pagescape Preview

A message from the

Editor in Chief



Mohammad Pahlavanian

Editor-in-Chief

Everything begins with an idea...

The concept for this magazine and its current issue, Genesis, was born when OpenAI introduced the artificial intelligence chatbot, ChatGPT, to the world. Initially, many struggled to grasp the true essence of artificial intelligence. What does it really mean? Does it imply the creation of a new device? Or perhaps the development of a semi-human entity? Some even wondered if it was just a revamped calculator, substituting numbers and digits with words and sentences.

When this Chatbot became accessible to the public, people's reactions and utilization varied. However, one thing became certain: tools like these, emerging in the world within a short span of time, possess unprecedented capabilities in the realms of computer technology and industry. With the creation of this magazine, utilizing Bing chat AI, Bard, ChatGPT for text generation, and Bing image creator, DALL-E, Midjourney for image generation, we have accomplished something that, until a few months ago, might have seemed challenging and beyond comprehension for most of our community.

May your ventures be characterized by innovation and zest

May 2023



DEBUGGER

An Interview with the creator of our magazine



conversationalist:
Mahdi Sharbatdar
Student of computer engineering
This article was generated by CHAT GPT

An Interview with the creator of our magazine
(Chat GPT)



I want to have an interview with you, please be ready?

Certainly! I am ready whenever you are. What would you like to know?

Hello . How are you? What's going on?

As an AI language model, I do not have emotions or physical sensations, but I am okay and I am ready to help you with any questions you may have. Is there anything in particular you want to know or talk about?

What is your history? Who created you?

I was created by OpenAI, an artificial intelligence research organization, using an advanced language model called GPT-3.5. OpenAI is a research company focused ondeveloping advanced artificial intelligence technologies in a safe and beneficial way.

My development started in 2020 and I was officially released in 2021. Since then, I havebeen constantly learning and improving my language abilities through machine learning algorithms and processing large amounts of textual data.

Who named you?

I am named by the team at OpenAI who developed me. The name chatGPT is a combination of chat, which refers to my ability to converse with people, and GPT, which stands for Generative Pre-trained Trasformer, the type of language model I am based on.

How do you work? What is your working mechanism?

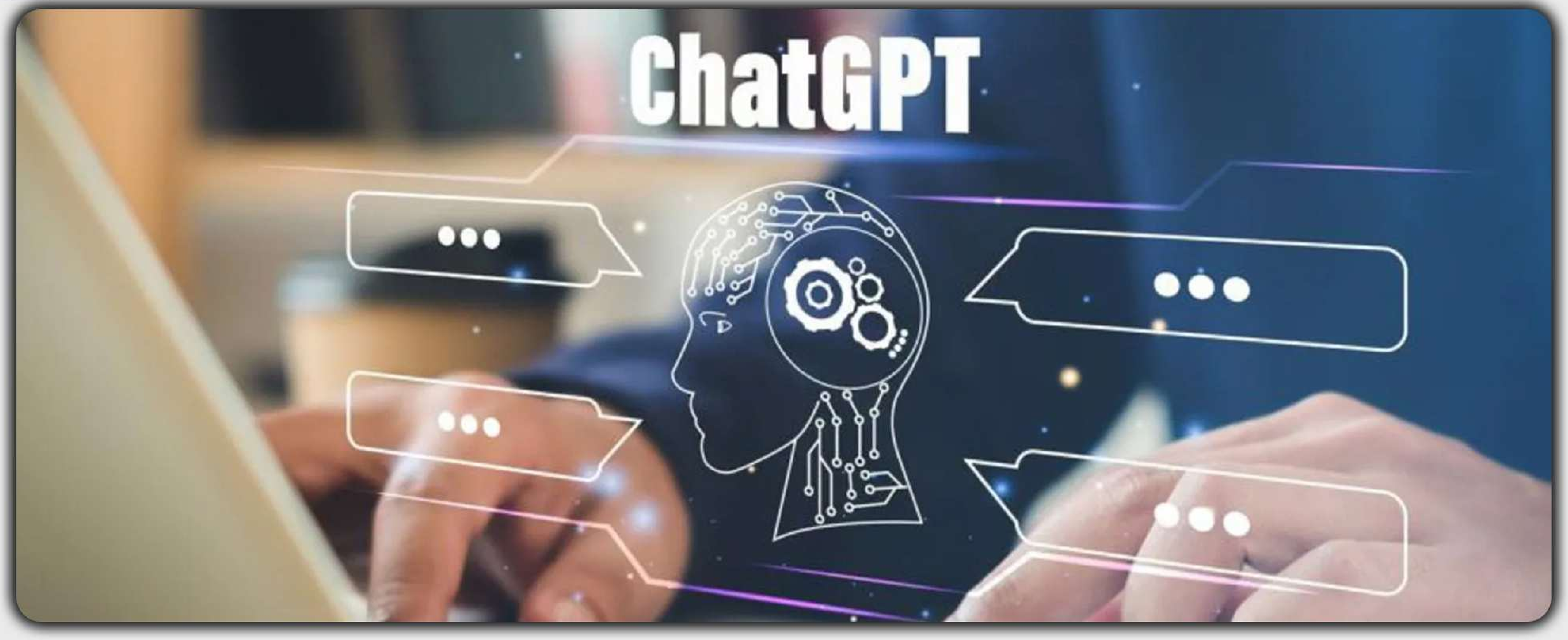
I work based on a mechanism called machine learning. Specifically, I use a type of machine learning called deep learning, which involves neural networks, capable of learning and making predictions based on patterns in large data sets.

My architecture is based on the transformer model, a type of neural network introduced in 2017. The transformer model is designed to process data sequences such as text. It does this with a technique called Attention, which allows the model to focus on different parts of the input sequence at different times.

During my training, I was given a large amount of textual data, which allowed me to learn the statistical patterns of human language. When I receive a question or request from a user, I analyze the input, use my knowledge of language and text patterns, and create a response that I believe best fits the question or request.

What is your goal and purpose?

As an artificial intelligence language model, my main goal is to help and provide service to humans by participating in dialogue and answering questions to the best of my ability. My goal is to provide useful, accurate and relevant answers that can help users in various fields such as education, research, entertainment and more.



In addition, my developers at OpenAI are also aware of the importance of developing advanced artificial intelligence technologies. My goal is to promote and advance the ethical and responsible use of artificial intelligence and to contribute to continuous research in this field.

Will you and other artificial intelligence tools replace humans in the near future?

It is unlikely that artificial intelligence tools, including language models like mine, will completely replace humans in the future. While artificial intelligence has shown significant progress in various fields, including language processing and decision-making, there are still many tasks that require human intelligence, creativity, and empathy. In addition, AI technology is designed to augment human capabilities, not replace them. AI tools can assist humans with repetitive, mundane, or dangerous tasks and allow humans to work on tasks that requires higher level thinking, creativity and social skills.

According to what was said, it is important to note that the continuous development and integration of artificial intelligence in various industries and aspects of daily life will probably lead to changes in the workforce and the labor market. It is important for individuals and society as a matter of principle to adapt to these changes and ensure that the benefits of AI are distributed fairly and equitably.

What is your foreseeable future and what do you wish to do in the future?

As an artificial intelligence language model, my future involves continuous improvement and development of my linguistic abilities. My developers at OpenAI are constantly trying to improve my abilities, such as improving my understanding of text and reasoning. In the future, my goal is to become even more skilled at understanding and producing natural language text and to use other methods such as images or speech to further enhance my abilities. I also hope to continue the ongoing research in artificial intelligence and promote the ethical and responsible use of artificial intelligence technologies. Ultimately, my goal is to continue serving users by helping them in various areas, by answering questions which could help with research and so on.

Thank you for your time.

you're welcome ! It was a pleasure talking to you. If you have any other questions or concerns in the future, feel free to ask!

VR



conversationalist:
Mohammad Pahlavanian
Student of computer engineering
This article was generated by Google Bard

Virtual Reality:

The Promise and Peril of Immersive Technology

Virtual reality is a computer simulation that can be similar or completely different from the real world. Virtual reality is currently used in the field of entertainment, education and medical treatment.

Virtual reality is divided into three categories:
non immersive, semi immersive ,Completely immersive:

* Non-immersive virtual reality is experienced through a computer and allows the user to control characters and activities from within the software. But it does not interact with the environment directly.
* Semi-immersive virtual reality is a combination of non-immersive virtual reality and fully immersive virtual reality.

This technology can be presented in the form of a 3D space or virtual environment. The user can communicate with this spacethrough the computer screen or headset.

* Fully immersive virtual reality is a computer simulation that completely surrounds the users and allows them to interact with the environment in such a way that it is indistinguishable from the surrounding reality.

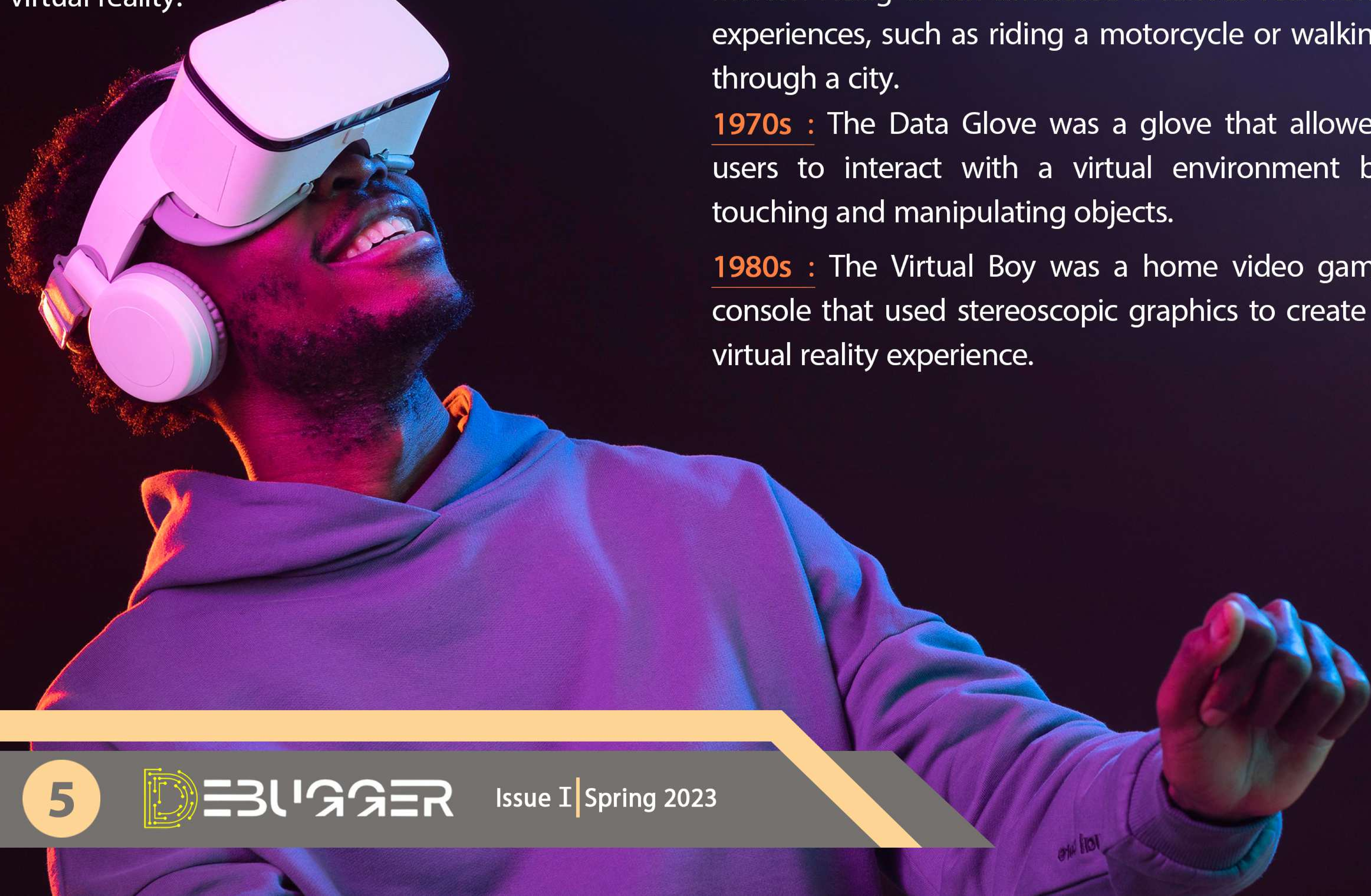
Virtual reality throughout its history:

The history of virtual reality can be traced back to the early days of computer science when researchers started thinking about creating artificial worlds that could be experienced by humans. The first virtual reality systems were developed in the 1960s and 1970s, but they were not widely available to the public until the early 2000s.

1960s : The Sensorama was a machine created by Morton Heilig which simulated a various real-world experiences, such as riding a motorcycle or walking through a city.

1970s : The Data Glove was a glove that allowed users to interact with a virtual environment by touching and manipulating objects.

1980s : The Virtual Boy was a home video game console that used stereoscopic graphics to create a virtual reality experience.



VR



2000s : Nintendo Wii was a home video game console that used motion controls to create a more immersive gaming experience.

2010s : PlayStation VR was a head-mounted display that allowed users to experience virtual reality on the PlayStation 4.

2020s : Meta Quest 2 is an independent display on the head that does not require a console or computer to use. PlayStation VR2 is the successor of PlayStation VR, which was introduced to present more immersive experiences.

These are just a few examples of the many notable VR apps released over the years VR is a rapidly growing technology, and for sure, in the coming years, much more important and different virtual reality devices will be released.

Virtual reality in today's world:

Today, there are many applications and different VR devices, including headsets, gloves, and treadmills. These devices enable users to experience virtual reality in different ways. They are used in all kinds of daily life programs, including games, education and medical treatment.They are used in games to create immersive and real experience. In education, VR is used to provide practical learning experiences to student. VR is also used to train employees on how to perform dangerous or complex tasks. In medical treatment, VR has been used to treat various conditions, including phobias, pain and anxiety.

Virtual reality in the coming future :

The future of virtual reality is full of possibilities. As virtual reality technology continues to develop, it will likely become more affordable and accessible. This leads to wider use of virtual reality in different programs.

Here are some advantages of virtual reality :

* Virtual reality can present more inclusive and realistic experiences than traditional sources of media.

* Virtual reality can be used to teach people how to perform dangerous or complex tasks.

* Virtual reality can be used to treat different conditions, including phobias, pain and anxiety.

However, there are some risks associated with the increased use of virtual reality:

* It can be addictive.

* It can cause motion sickness.

* It can be used for malicious purposes such as more detailed training of terrorists and destructive activities.

In general, virtual reality is a powerful technology that has the potential for both good and bad uses. It is important to be aware of the potential risks and benefits before using virtual reality.

Bioinformatics



conversationalist:
Shervin Ahmad Panahi
Student of computer engineering
This article was generated by Google Bard



Bioinformatics: The Science of the Future

Bioinformatics is a rapidly growing field that combines computer science, statistics and biology to analyze and interpret biological data It is a multidimensional field that uses computational and statistical techniques to solve biological problems. Bioinformatics is used in a wide range of applications, including drug discovery, disease diagnosis, and environmental review. A master's degree in bioinformatics can prepare you for various jobs, including university, government, and industry. Bioinformatics specialists are in high demand and they are given significant salaries. If you are interested in a promising career with the potential to make a real difference in the world, a master's degree in bioinformatics may be the right choice for you.

Here are some reasons why you should consider a master's in bioinformatics :



Bioinformatics is a rapidly growing field. It is expected that the demand for bioinformatics specialists will be high in the years to come. Bioinformatics is a multifaceted field, which means that you will have the opportunity to learn about a variety of subjects including computer science, biology, statistcs ..Bioinformatics is a challenging field. If you are looking for a career that is intellectually dynamic, bioinformatics may be the right choice for you. Bioinformatics is an upcoming field. Bioinformatics specialists have the opportunity to make real changes in the world by helping to produce new drugs, diagnose diseases and environmental monitoring. If you are interested in getting a master's degree in bioinformatics, there are a few things you can do to prepare. First, you need to complete courses in computer science, biology and statistics. You should also gain experience in programming and data analysis. Finally, you should connect with bioinformatics professionals to learn more about this field and get advice about your career goals.

A master's degree in bioinformatics can be a great way to prepare for a career in this field. If you are interested in a career that is intellectually stimulating and rewarding, bioinformatics may be the right choice for you.



conversationalist:
Mojtaba Moradi
Student of computer engineering
This article was generated by CHAT GPT

Telegram vs WhatsApp: The Ultimate Security Showdown

As messaging apps continue to be an inevitable part of our daily communication, it is important to pay attention to their level of privacy and security. Two of the most widely used messaging apps, communication, it is important to pay attention to their level of privacy and security. Two of the most widely used messaging apps, Telegram and WhatsApp both offer end-to-end encryption to ensure secure communication. However, there are significant differences in how these programs manage user privacy and security. Telegram's MTProto protocol is a peer-to-peer messaging program that uses its own custom encryption protocol, RSA key exchange, 2048-bit AES encryption, and a combination of strong encryption methods, including symmetric 256-bit encryption. However, one of Telegram's security concerns is that it relies on Hellman-Diffie passwords to encrypt user messages. If the attacker succeeds in breaking the password, he will have access to the subsequent sent and received messages of the user. This means that any future communication can be compromised and an attacker can read them in real time. WhatsApp, on the other hand, uses the Signal protocol for end-to-end encryption, which encrypts messages while sending and idle.

In addition, WhatsApp uses a general and unique protocol to ensure the security of WhatsApp, if an attacker intercepts the messages,

In addition, WhatsApp uses a general and unique protocol to ensure attacker the security of WhatsApp, if an intercepts the messages, they will not be able to read them. In addition, passwords from previous backups are used and not the actual messages sent through the program, which means that even if an attacker succeeds in cracking the password, he cannot access the messages sent and received by the user in the future. Despite differences in security methods, WhatsApp's privacy policy has been under scrutiny since its acquisition by Facebook. Facebook has access to WhatsApp user data, including metadata such as who you talk to, when and for how long. In contrast, Telegram has a privacy-focused approach. However, security concerns related to Telegram's password protection method should also be considered when choosing a messaging app. In the end, while WhatsApp's use of the Signal protocol ensures end-to-end encryption of all messages and uses a general and unique protocol, its connection to Facebook raises concerns about data privacy. In contrast, Telegram's independent approach provides more control over users' data and guarantees maximum privacy for users. However, security concerns related to Telegram's password protection method should be considered, as attackers can gain access to subsequent messages if the password is cracked. Finally, users should consider their privacy and security needs when choosing between these messaging apps.



conversationalist:
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This article was generated by Bing Chat AI

Block chain: Interconnected living

What is Blockchain and where was it mentioned for the first time?

Blockchain was first introduced in 2008 in the form of Bitcoin distributed ledger. Satoshi Nakamoto, the author of an article entitled "Bitcoin: A Peer-to-Peer Electronic Cash System", used this technology for the first time in this article. But blockchain, as an infrastructure, is not limited to cryptocurrencies and is used in many other fields such astransportation, banking, insurance, health, real estate, tenement, elections, etc.

Blockchain applications:

Blockchain is used in almost all fields and makes life easier for us. Blockchain is used in various fields such as banking, taxation, law, health, supply chain, network security, and product quality monitoring. Below some uses are explained in more details:

Money transfer:

Blockchain is used as an infrastructure for digital currencies such as Bitcoin. By using blockchain, it is possible to transfer money between two people without the need for an intermediary.

Supply chain:

Blockchain can be used in the supply chain of products. By using blockchain, detailed information about the product's movement path from production to consumption is determined.



Network Security:

Blockchain can be used for the security of networks and sensitive data. In blockchain, information is stored in the entire network and any changes to it are detected quickly.

Elections:

Blockchain can be used as an infrastructure to organize elections and voting. By using blockchain, it is possible to authenticate and vote electronically with high security.

Law:

Blockchain can be used to manage legal registration. Any change in the law recorded in the blockchain will cause changes in the subsequent blocks, thus legal authenticity is guaranteed in the blockchain system.

Health:

Blockchain can be used in health systems to manage medical cases and transfer medical data. In blockchain, medical information is exchanged between patients and doctors in a transparent and secure manner.

How is blockchain used?

To use blockchain, you must first set up a blockchain network. Then the program that is going to use the blockchain must connect with the blockchain network. Finally, the program can access the data and transactions in the blockchain using the functions defined in the programming interface for the blockchain and add new data to it.

Blockchain applications in life today:

Blockchain is a growing technology that can be used in many areas of our daily life. For example, blockchain can be used in the fields of finance, insurance, health, transportation, real estate, elections, supply chain, etc. Also, by using blockchain, it is possible to participate in interaction with others in a decentralized manner without the need for an intermediary. Currently, blockchain is still in its beginning days and, in general, its real usages are still being developed. But due to the fact that blockchain is a kind of public ledger and all transactions are stored in it, blockchain will probably have useful applications in the daily life of many people in the future. For example, blockchain can be very useful in the fields of finance and banking, supply chain, health, law, elections, etc. As an example, blockchain can be used in patients' medical records and store their medical information in a transparent and safe manner for quick access and improvement of treatment. Therefore, due to the increasing development of blockchain technology, it is likely that various and wider usages will appear for it in the future.

The future of blockchain:

In the future, blockchain can be used in various fields such as finance, security, digital and even medical. Blockchain can increase speed, transparency and security in digital transactions. Blockchain can also be used as a platform for digital currency and digital contracts.

Useful computer tips and tricks



conversationalist:
Amirhosein Moghadam
Student of computer engineering
This article was generated by CHAT GPT

Problem Step Recorder (PSR)



This is a great troubleshooting trick. PSR helps you to record your mouse movement and take screenshots of the areas you click on. If you have a problem on your computer, use PSR to capture a screenshot and send it to a specialist who can guide you. The best way to understand this trick is to try it by using Windows Key+R open the RUN, type PSR and then press ENTER. Then click on Start Record. Whenever you click on the program to start the screen recording, provide a description of what is happening in that part. After finishing the work, save it so that you can send it to others as a zip file.

A simple trick to speed up the computer from startup

In most cases, the programs which run at startup are programs that usually increase the computer's loading time. To increase the speed, just disable some programs. There are different ways to do this, but the easiest way that will work in all Windows is Msconfing. Click on Start or Search, type Msconfing, Go to the Start bar, Use the check box to disable any programs you want.



Using cloud backup

This is a good way to back up your important files. Apart from using local backup, cloud backups are also helpful and can reduce the worry of data loss. A good reason we like to have cloud backup is that sometimes copies are created without even realizing. Many sites offer this service, two of the most popular are Dropbox and Google Drive.

How to rotate your computer screen

This trick usually gets people shocked or amazed. By using it, you can make your screen look upside down. Hold down any of the Arrow Keys + Ctrl + Alt and use it to amaze your friends!

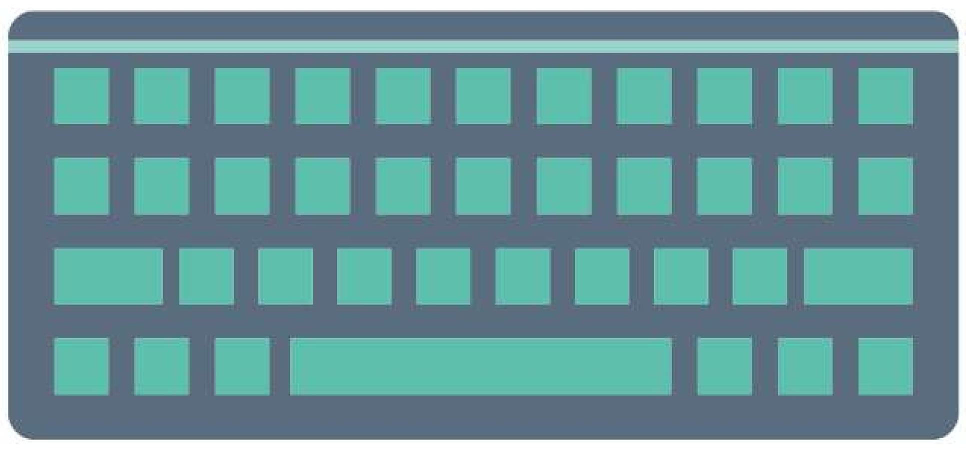
How to lock your computer in seconds without moving the mouse



Use Windows + L. This is useful for when someone suddenly walks out of the room and you don't want them to see what you are doing. So use this trick trick to lock your screen. Please don't use your computer for inappropriate or immoral purposes, there are good ways to make use of a computer system!Mac users can use this trick by holding Command+Option+Power. If you want, you can replace Power with Eject.

Useful computer tips and tricks





How to rename a file quickly

Most people change file names by right-clicking and selecting rename. This method is abit slow. Just select the file and press f2.

How to rename multiple files at once

If you have many files that you want to rename, you don't need to select them one by one. Select all files and rename the first one in the list. All files will have the same name with different numbers at the end.

Useful keyboard shortcuts

- D + Windows Key to display the desktop.
- E + Windows Key to open the file explorer of windows.
- C + Ctrl Key to copy the selected item.
- V + Ctrl Key to paste what was copied.
- Ctrl + Alt + Del key to open the task manager window.



Decoding the human mind with AI



conversationalist:
Esmaeel Shabani Khatib
Student of computer engineering
This article was generated by CHAT GPT

Artificial Intelligence in psychology

Artificial intelligence (AI) has transformed various industries, and psychology has been no exception. Artificial intelligence has opened up new possibilities for psychologists to study and understand human behavior in an efficient and effective manner. This article examines the applications of artificial intelligence in psychology, including the history of the early adaptions of artificial intelligence in this field.

Notable efforts in this field were made by Alan Newell and Herbert A. Simon, who in the late 1950s developed the Logic Theory programming, which were able to solve mathematical problems by searching for patterns in data. This pioneering work paved the way for further research in artificial intelligence and its potential applications in psychology.

One of the first artificial intelligence systems developed for psychologists was named ELIZA, a natural language processing program that mimicked a psychotherapist by using simple pattern recognition to respond to users' typed statements. While ELIZA's responses were limited and often repetitive, it paved the way for more advanced systems.

As computer technology continues to advance, the capabilities of artificial intelligence in psychology have also increased. In the 1990s, machine learning algorithms were used to analyze large datasets of patient information, and researchers were developing neural networks capable of simulating the structure and function of the human brain.

Today, the use of artificial intelligence in psychology is growing rapidly. From predicting and treating mental health disorders to improving the delivery of psychological care, AI is changing the way we understand and approach health and well-being.

Identifying and predicting mental disorders using artificial intelligence:

One of the most important applications of artificial intelligence in psychology is to identify and predict mental disorders. Artificial intelligence tools such as machine learning algorithms can analyze large amounts of data and identify patterns that may indicate the presence of a mental disorder. For instance, AI algorithms can analyze speech patterns, facial expressions, and other behavioral patterns to identify people at risk for depression or anxiety.

Treatment of disorders:

Artificial intelligence has also shown promising results in the treatment of mental disorders. AI-powered chatbots and virtual assistants can provide personalized therapy for people with mental disorders. These tools can provide a safe and private environment for people to express their thoughts and feelings. Additionally, AI tools can provide real-time feedback to individuals during therapy sessions, which can be helpful in the treatment of mental disorders.



Using artificial intelligence to improve psychological services

Artificial intelligence can help improve psychological services by simplifying the process of providing mental health care. AI-powered chatbots and virtual assistants can help psychologists schedule appointments, answer questions, and provide personalized treatment for patients. This can help improve access to mental health services, especially for people in remote or out of reach areas.

Providing analytical suggestions to improve treatment using artificial intelligence

Artificial intelligence can provide analytical suggestions to improve the effectiveness of mental health treatments. For example, AI algorithms can analyze patient data to identify patterns that may indicate the need for changes in treatment. This can help psychologists create personalized treatment plans that fit each patient's unique needs.

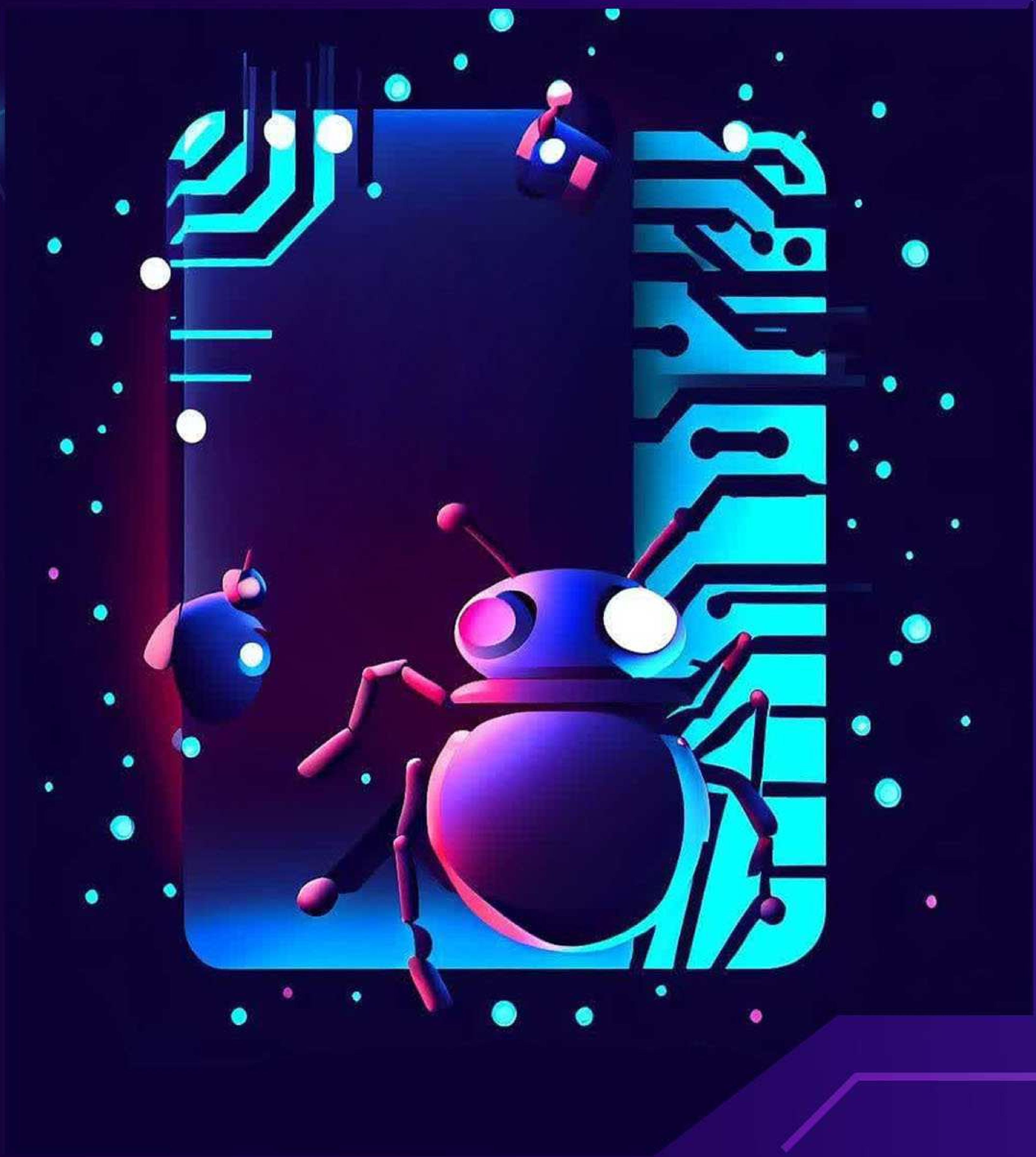
Finally, artificial intelligence has revolutionized the field of psychology by providing psychologists with new tools and methods to study human behavior. The applications of artificial intelligence in psychology, including identifying and predicting mental disorders, treating these disorders, examining behavioral and cognitive changes over time, improving psychological services, and providing analytical suggestions for improving treatment, are wide and promising. As AI technologies continue to evolve, it is likely that their impact on psychology will increase, leading to better mental health outcomes for all the people around the world.

The use of artificial intelligence in investigating the behavioral and cognitive changes of people over

Artificial intelligence can also help psychologists in studying the behavioral and cognitive changes of people over time. Artificial intelligence algorithms can analyze vast amounts of data, including medical records, social media activity, and other behavioral patterns to identify changes in a person's behavior or cognitive abilities. This can help psychologists develop personalized interventions that can help people overcome cognitive or behavioral challenges.

The Impact of artificial intelligence on psychology studies

Artificial intelligence has had a significant impact on psychological studies. Artificial intelligence tools such as natural language processing and sentiment analysis can help psychologists analyze large amounts of data, including text and speech. This can help psychologists understand how people express feelings and thoughts and how this expression relates to their mental health.



انجمن علمی
هوش مصنوعی و مهندسی کامپیوتر
دانشگاه آزاد اسلامی واحد سمنان

شناسنامه

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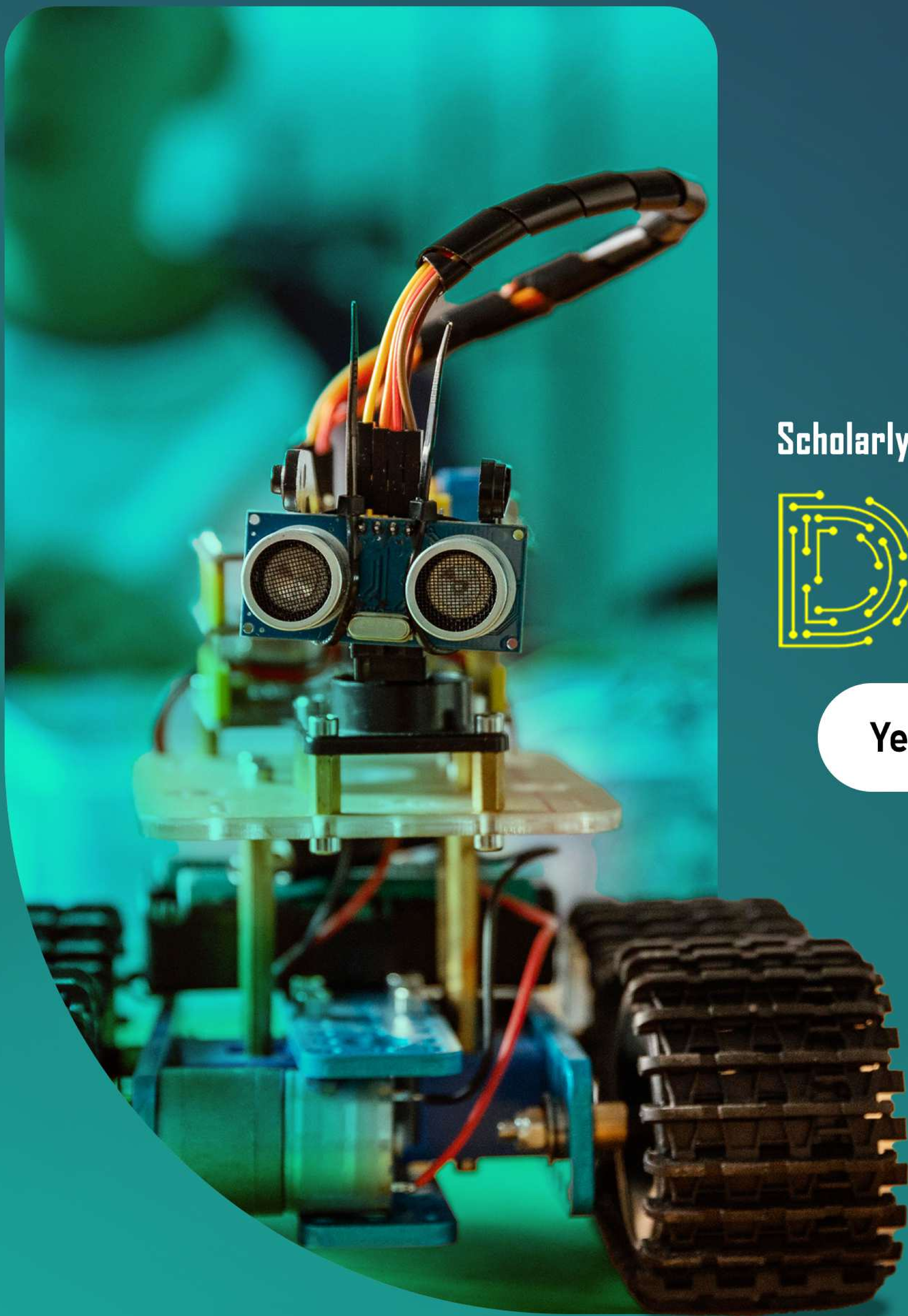
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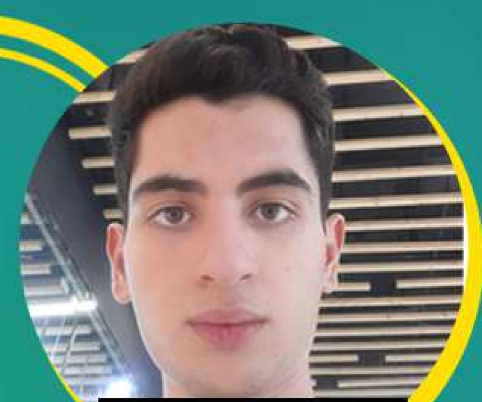
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